

WHAT IS CLAIMED IS:

1. An optical unit having an optical barrel and imaging means disposed at a rear side portion on an optical axis of said optical
5 barrel, the optical unit comprising:
infrared transmission amount adjusting means, provided at a front side portion on an optical axis of said imaging means, for adjusting an amount of infrared electromagnetic wave to be transmitted.
- 10 2. The optical unit according to claim 1,
wherein said infrared transmission amount adjusting means comprises a liquid crystal panel or an electro-chromic device.
- 15 3. An optical unit having a fixed barrel, at lest one lens barrel being movable along a direction of an optical axis thereof with respect to said fixed barrel and imaging means disposed at a rear side portion on the optical axis of said lens
20 barrel, the optical unit comprising:
infrared transmission amount adjusting means, provided at a front side portion on an optical axis of said imaging means, for adjusting an amount of infrared electromagnetic wave to be transmitted.
- 25 4. The optical unit according to claim 3,
wherein said infrared transmission amount adjusting means comprises a liquid crystal panel or an electro-chromic device.
- 30 5. An imaging apparatus comprising an optical unit, wherein said optical unit comprises:

an optical barrel,
a fixed barrel disposed at a rear side portion on an
optical axis of said optical barrel,
at least one lens barrel being movable along said optical
5 axis with respect to said fixed barrel,
imaging means being disposed at a backside portion on an
optical axis of said lens barrel, and
infrared transmission amount adjusting means, provided
at a front side portion on an optical axis of said imaging means,
10 for adjusting an amount of infrared electromagnetic wave to be
transmitted.